CLAIMS:

- 1. A resorbable extracellular matrix for reconstruction of cartilage tissue, said matrix comprising a purified collagen II derived from natural cartilage tissue from which non-collagen proteins have been removed, wherein said matrix comprises fibres of native collagen II which are physiologically acceptable for implant into a mammalian body, said matrix having a pore size within a range of about 50 -
- 2. A matrix as claimed in claim 1 having a pore size within a range of about 70 120 $\mu m.\,$
- 3. A matrix as claimed in claim 1 containing at least one glycosaminoglycan (GAG) comprising about 1 15% by weight of said matrix.
- 4. A matrix as claimed in claim 3 wherein said at least GAG comprises about 2 3% by weight of said matrix.
- 5. A matrix as claimed in claim 1 having a density of about 0.18 0.22 $g/m^3\,.$
- 6. A matrix as claimed in claim 1 wherein said matrix includes a material selected from the group consisting of at least one glycosaminoglycan (GAG), chondronectin, anchorin II, cartilage inducing factor (CIF), insulin-like growth factor (IGF), transforming growth factor β (TGF β) and a mixture thereof.
- 7. The matrix of claim 1 wherein said GAG is selected from the group consisting of chondroitin sulphate, keratan sulphate, dermatan sulphate, hyaluronic acid, and a mixture thereof.
- 8. A matrix as claimed in claim 1, wherein said natural cartilage tissue is subjected to defatting.
- 9. A matrix as claimed in claim 1 which is derived from hyaline cartilage from pig.
- 10. A scaffold implant for promoting cartilage regeneration comprising the matrix of claim 1, said implant having a thickness of about 0.2 2 cm.

- 11. The implant of claim 10 having a thickness of about 0.4 1 cm.
- 12. The implant of claim 10, wherein said matrix is a carrier of a material selected from the group consisting of mesenchymal stem cells and a cartilage cell growth-promoting nucleic acid sequence.